

## **CAPACITOR SWITCH WITH INTERNAL RETRACTING IMPEDANCE CONTACTOR**

### **ABSTRACT OF THE DISCLOSURE**

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A capacitor switch including a power contactor and an impedance contactor located within a relatively slender container filled with dielectric gas. The container may be a "dead tank" or an insulator. For the insulator configuration, the switch also includes a conductive cap housing a charging impedance located on the end of the

10 insulator. The power contactor includes a relatively fixed probe contact and a linearly moving socket. The impedance contactor is ring-type butt contactor surrounding the penetrating contactor that includes a retracting (but otherwise fixed) contact that surrounds the fixed probe, and a traveling ring contact that surrounds and moves with the moving socket contact. The impedance contactor closes before the power

15 contactor on the closing stroke to introduce the charging impedance into the circuit. A puffer mechanism retards the expansion of the retracting contact on the opening stroke, which causes the impedance contactor to open before the power contactor.